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Set	Items	Description
S1	2188882	IMAGE??
S2	119590	S1(3N) (SEGMENT? OR PARTS OR PARTITION? OR PORTION? OR PART OR SECTOR? OR SECTION? OR REGION? OR PIECE? OR FRAGMENT?)
S3	5002	GRAPHIC? AND SYNTHETIC?
S4	29990	(PICTURE? OR PHOTO OR PHOTOGRAPH??) AND NATURAL
S5	7160290	CLASSES OR CLASSIFICAT? OR GROUP??? OR CLASSIFY? OR CLASS
S6	459929	FUZZY() LOGIC? OR NEURAL() NETWORK? OR RULE(3N) BASED
S7	3019622	TEXTURE? OR COLOR? OR COLOUR? OR EDGE? OR VARIANCE OR BIAS OR SKEW? OR FITNESS OR EDGE? OR LUMINANCE
S8	4912	EDGE? AND HORIZONTAL? AND VERTICAL?
S9	391	SGLD OR SPATIAL() (GREY OR GRAY) () LEVEL() DEPENDENC?
S10	20758	(GREY OR GRAY) () LEVEL?
S11	2117571	HISTOGRAM? OR ALGORITHM?
S12	41389	AU=(PRABHAKAR, S? OR CHENG, H? OR FAN, Z? OR HANDLEY, J? - OR LIN, Y? OR PRABHAKAR S? OR CHENG H? OR FAN Z? OR HANDLEY - J? OR LIN Y?)
S13	12	(IDENTIF? OR DETERMIN? OR DETECT?) AND S3 AND S4
S14	7	S13 AND S5
S15	5	RD S14 (unique items)
S16	1	S12 AND S3 AND S4
S17	0	S16 NOT S15
S18	3803	S2 AND S5 AND S6
S19	1621	S18 AND S7
S20	9	S19 AND S8
S21	9	S20 NOT (S16 OR S15)
S22	5	S21 NOT PY=>2002

S23	2	RD S22 (unique items)
S24	48	S19 AND S9
S25	39	S24 AND S11
S26	39	S25 NOT (S20 OR S16 OR S15)
S27	28	S26 NOT PY=>2002
S28	24	RD S27 (unique items)
S29	1	S28 AND (SYNTHETIC OR NATURAL)
S30	85	S3 AND S4
S31	37	S30 AND (S7 OR S8 OR S9 OR S10)
S32	15	S31 AND S5
S33	11	S32 NOT (S25 OR S20 OR S16 OR S15)
S34	10	S33 NOT PY=>2002
S35	7	RD S34 (unique items)

File 344:Chinese Patents Abs Aug 1985-2004/May
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File 347:JAPIO Nov 1976-2004/Aug(Updated 041203)
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File 350:Derwent WPIX 1963-2005/UD,UM &UP=200508
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Set	Items	Description
S1	1229757	IMAGE??
S2	117702	S1(3N)(SEGMENT? OR PARTS OR PARTITION? OR PORTION? OR PART OR SECTOR? OR SECTION? OR REGION? OR PIECE? OR FRAGMENT?)
S3	664	GRAPHIC? AND SYNTHETIC?
S4	5973	(PICTURE? OR PHOTO OR PHOTOGRAPH??) AND NATURAL
S5	1015178	CLASSES OR CLASSIFICAT? OR GROUP??? OR CLASSIFY? OR CLASS
S6	13691	FUZZY()LOGIC? OR NEURAL()NETWORK? OR RULE(3N)BASED
S7	1847787	TEXTURE? OR COLOR? OR COLOUR? OR EDGE? OR VARIANCE OR BIAS OR SKEW? OR FITNESS OR EDGE? OR LUMINANCE
S8	31692	EDGE? AND HORIZONT? AND VERTICAL?
S9	4	SGLD OR SPATIAL() (GREY OR GRAY) () LEVEL()DEPENDENC?
S10	2595	(GREY OR GRAY) () LEVEL?
S11	41980	HISTOGRAM? OR ALGORITHM?
S12	4011	AU=(PRABHAKAR, S? OR CHENG, H? OR FAN, Z? OR HANDLEY, J? - OR LIN, Y? OR PRABHAKAR S? OR CHENG H? OR FAN Z? OR HANDLEY - J? OR LIN Y?).
S13	2	(IDENTIF? OR DETERMIN? OR DETECT?) AND S3 AND S4
S14	4	S9 NOT S13
S15	2	S12 AND S3 AND S4
S16	0	S15 NOT (S9 OR S13)
S17	1590	S2 AND S5 AND S7
S18	2	S17 AND S8 AND S10
S19	2	S18 NOT (S9 OR S13)
S20	2	S19 NOT S15
S21	4	S17 AND SYNTHETIC? AND NATURAL
S22	3	S21 NOT (S19 OR S15 OR S9 OR S13)
S23	3	S2 AND S3 AND S4
S24	2	S23 NOT (S9 OR S13 OR S15 OR S19 OR S21)

File 348:EUROPEAN PATENTS 1978-2005/Jan W03

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File 349:PCT FULLTEXT 1979-2002/UB=20050127,UT=20050120

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Set	Items	Description
S1	467309	IMAGE??
S2	62229	S1(3N)(SEGMENT? OR PARTS OR PARTITION? OR PORTION? OR PART OR SECTOR? OR SECTION? OR REGION? OR PIECE? OR FRAGMENT?)
S3	143	GRAPHIC?(3N)SYNTHETIC?
S4	732	(PICTURE? OR PHOTO OR PHOTOGRAPH??)(3N)NATURAL
S5	883759	CLASSES OR CLASSIFICAT? OR GROUP??? OR CLASSIFY? OR CLASS
S6	14169	FUZZY()LOGIC? OR NEURAL()NETWORK? OR RULE(3N)BASED
S7	777416	TEXTURE? OR COLOR? OR COLOUR? OR EDGE? OR VARIANCE OR BIAS OR SKEW? OR FITNESS OR EDGE? OR LUMINANCE
S8	2134	EDGE?(3N)HORIZONTAL?(3N)VERTICAL?
S9	28	SGLD OR SPATIAL() (GREY OR GRAY) () LEVEL()DEPENDENC?
S10	5240	(GREY OR GRAY) () LEVEL?
S11	135431	HISTOGRAM? OR ALGORITHM?
S12	676	AU=(PRABHAKAR, S? OR CHENG, H? OR FAN, Z? OR HANDLEY, J? OR LIN, Y? OR PRABHAKAR S? OR CHENG H? OR FAN Z? OR HANDLEY J? - OR LIN Y?)
S13	0	(IDENTIF? OR DETERMIN? OR DETECT?)(3N)S3(3N)S4
S14	25413	IC=G06K?
S15	0	S12 AND S9
S16	323	S12 AND S5
S17	63	S16(S)S1
S18	8	S16 AND S14
S19	8	S18 NOT AD=20010928:20050303/PR
S20	13	S2(S)S5(S)S7(S)S8
S21	0	S20(S)S9
S22	0	S20(S)S10
S23	6	S20(S)S11
S24	6	S23 NOT S18
S25	5	S24 NOT AD=20010928:20050303/PR
S26	2	S3(S)S4
S27	2	S26 NOT (S23 OR S18)

	Type	L #	Hits	Search Text	DBs
1	BRS	L1	32224	(image or video or document) with (segment\$8 or class\$10)	USPAT
2	BRS	L2	3798	1 and ((extract\$3 or detect\$3)with (edge or contour))	USPAT
3	BRS	L3	2339	2 and threshold	USPAT
4	BRS	L4	752	3 and histogram	USPAT
5	BRS	L5	72	4 and (hough with transform)	USPAT
6	BRS	L6	28	4 and ((hough with transform) with (edge or contour))	USPAT
7	BRS	L7	1825	(image or video or document) with (segment\$8 or class\$10)	EPO
8	BRS	L8	42	7 and ((extract\$3 or detect\$3)with (edge or contour))	EPO
9	BRS	L9	0	8 and histogram	EPO
10	BRS	L10	11184	(image or video or document) with (segment\$8 or class\$10)	DERWEN T
11	BRS	L11	215	10 and ((extract\$3 or detect\$3)with (edge or contour))	DERWEN T
12	BRS	L12	2	11 and histogram	DERWEN T
13	BRS	L13	8191	(image or video or document) with (segment\$8 or class\$10)	JPO
14	BRS	L14	212	13 and ((extract\$3 or detect\$3)with (edge or contour))	JPO
15	BRS	L15	0	14 and ((hough with transform)with (edge or contour))	JPO

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1 Learning to detect natural image boundaries using local brightness, color, and texture cues
Martin, D.R.; Fowlkes, C.C.; Malik, J.;

Pattern Analysis and Machine Intelligence, IEEE Transactions on , Volume: 26 , Issue: 5 , May 2004

Pages:530 - 549

[\[Abstract\]](#) [\[PDF Full-Text \(5245 KB\)\]](#) IEEE JNL

2 Forward-and-backward diffusion processes for adaptive image enhancement and denoising
Gilboa, G.; Sochen, N.; Zeevi, Y.Y.;

Image Processing, IEEE Transactions on , Volume: 11 , Issue: 7 , July 2002

Pages:689 - 703

[\[Abstract\]](#) [\[PDF Full-Text \(461 KB\)\]](#) IEEE JNL

3 Automatic model-based semantic object extraction algorithm
Jianping Fan; Xingquan Zhu; Lide Wu;

Circuits and Systems for Video Technology, IEEE Transactions on , Volume: 11 , Issue: 10 , Oct. 2001

Pages:1073 - 1084

[\[Abstract\]](#) [\[PDF Full-Text \(360 KB\)\]](#) IEEE JNL

4 Matching and retrieval based on the vocabulary and grammar of color patterns
Mojsilovic, A.; Kovacevic, J.; Jianying Hu; Safranek, R.J.; Ganapathy, S.K.;

Image Processing, IEEE Transactions on , Volume: 9 , Issue: 1 , Jan. 2000

Pages:38 - 54

[\[Abstract\]](#) [\[PDF Full-Text \(932 KB\)\]](#) IEEE JNL

5 EdgeFlow: a technique for boundary detection and image segmentation
Wei-Ying Ma; Manjunath, B.S.;
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 Pages:1375 - 1388

[\[Abstract\]](#) [\[PDF Full-Text \(3116 KB\)\]](#) IEEE JNL

6 Region competition: unifying snakes, region growing, and Bayes/Ml for multiband image segmentation
Song Chun Zhu; Yuille, A.;
 Pattern Analysis and Machine Intelligence, IEEE Transactions on , Volume: 18 , Issue: 9 , Sept. 1996
 Pages:884 - 900

[\[Abstract\]](#) [\[PDF Full-Text \(1952 KB\)\]](#) IEEE JNL

7 Segmenting images using normalized color
Healey, G.;
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 Pages:64 - 73

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8 Integration of vision modules and labeling of surface discontinuities
Gamble, E.B.; Geiger, D.; Poggio, T.; Weinshall, D.;
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 Pages:1576 - 1581

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9 Graph-theoretical approach to colour picture segmentation and classification
Vlachos, T.; Constantinides, A.G.;
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 Pages:36 - 45

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10 Recursive neural networks for object detection
Bianchini, M.; Maggini, M.; Sarti, L.; Scarselli, F.;
 Neural Networks, 2004. Proceedings. 2004 IEEE International Joint Conference on , Volume: 3 , 25-29 July 2004
 Pages:1911 - 1915 vol.3

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11 Estimating the photorealism of images: distinguishing paintings from

photographs*Cutzu, F.; Hammoud, R.; Leykin, A.;*

Computer Vision and Pattern Recognition, 2003. Proceedings. 2003 IEEE Computer Society Conference on , Volume: 2 , 18-20 June 2003

Pages:II - 305-12 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(1803 KB\)\]](#) IEEE CNF**12 Learning affinity functions for image segmentation: combining patch-based and gradient-based approaches***Fowlkes, C.; Martin, D.; Malik, J.;*

Computer Vision and Pattern Recognition, 2003. Proceedings. 2003 IEEE Computer Society Conference on , Volume: 2 , 18-20 June 2003

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[\[Abstract\]](#) [\[PDF Full-Text \(1149 KB\)\]](#) IEEE CNF**13 Color and texture priors in active contours for model-based image segmentation***Zhou, Q.; Ma, L.; Chelberg, D.; Celenk, M.;*

Image and Signal Processing and Analysis, 2003. ISPA 2003. Proceedings of the 3rd International Symposium on , Volume: 2 , 18-20 Sept. 2003

Pages:690 - 695 Vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(1563 KB\)\]](#) IEEE CNF**14 A robust text detection algorithm in images and video frames***Qixiang Ye; Wen Gao; Weiqiang Wang; Wei Zeng;*

Information, Communications and Signal Processing, 2003 and the Fourth Pacific Rim Conference on Multimedia. Proceedings of the 2003 Joint Conference of the Fourth International Conference on , Volume: 2 , 15-18 Dec. 2003

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[\[Abstract\]](#) [\[PDF Full-Text \(420 KB\)\]](#) IEEE CNF**15 Bayesian supervised segmentation of objects in natural images using low-level information***Boldys, J.;*

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Pages:1054 - 1059 Vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(1592 KB\)\]](#) IEEE CNF[1](#) [2](#) [3](#) [4](#) [5](#) [Next](#)

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4	BRS	L4	449	(image or picture or video) with classif\$8	EPO
5	BRS	L5	0	4 same ((edge or contour) same (color or colour) same texture)	EPO
6	BRS	L6	3984	(image or picture or video) with classif\$8	DERWEN T
7	BRS	L7	3	6 same ((edge or contour) same (color or colour) same texture)	DERWEN T
8	BRS	L8	4828	(image or picture or video) with classif\$8	US- PGPUB
9	BRS	L9	19	8 same ((edge or contour) same (color or colour) same texture)	US- PGPUB
10	BRS	L10	3114	(image or picture or video) with classif\$8	JPO
11	BRS	L11	1	10 same ((edge or contour) same (color or colour) same texture)	JPO

	Type	L #	Hits	Search Text	DBs
1	BRS	L1	88	(binary with classif\$6) and (neural adj2 network)	USPAT
2	BRS	L2	0	(binary with classif\$6) and (neural adj2 network)	EPO
3	BRS	L3	2	(binary with classif\$6) and (neural adj2 network)	DERWEN T
4	BRS	L4	1	(binary with classif\$6) and (neural adj2 network)	JPO
5	BRS	L5	0	(binary with classif\$6) and (neural adj2 network)	IBM_TD B